

IV.—*An attempt to ascertain the Fauna of Shropshire and North Wales.* By T. C. EYTON, Esq., F.L.S.

[Continued from vol. ii. p. 56.]

IV. *Reptilia.*

*Lacerta agilis*, Linn. (Sand Lizard.) Two British specimens of this beautiful species are in my collection, one captured by myself in the garden of the Inn at Capel Cerrig, the other on the borders of the Weald Moors.

*Zootoca vivipara*, Wagl. (Viviparous Lizard.) Common.

*Anguis fragilis*, Linn. (Blind Worm.) Common in many localities in North Wales, particularly on the hills in the neighbourhood of Barmouth.

*Natrix torquata*, Ray. (Common Snake.) Common.

*Vipera communis*, Leach. (Viper.) Found in many localities, though not very common, amongst which may be named Rudge Heath and Knocker Heath in Shropshire, and on the sea-shore in the neighbourhood of Barmouth.

*Rana temporaria*, Linn. (Frog.) Common.

*Rana esculenta*, Linn. (Edible Frog.) Found on the Weald Moors in Shropshire. During the war, some French emigrants who were at Wellington were highly delighted in finding the true sort in this locality.

*Bufo vulgaris*, Flem. (Toad.) Common.

*Triton palustris*, Flem. (Warty Eft.) Common in pits in the neighbourhood of Eyton. Is this species distinct from the following?

*Triton punctatus*, Bonap. (Common Eft.) Common both in Wales and Shropshire. A variety is found on the Holyhead mountain in spring, under stones, which differs in being of a much lighter colour, and in having two dark stripes on each side of the dorsal line; the belly is deep orange with much fewer spots than usual; the total length three inches: the numbering of the vertebræ however is the same as in the common species.

V. *Pisces.*

*Perca fluviatilis*, Linn. (Perch.) A common fish both in the rivers and pools throughout Shropshire, but I know of no lake in North Wales in which it is indigenous; the deformed variety found in the Thames I have repeatedly taken in the Shrewsbury canal. This deformity is by no means peculiar to perch; I have in my collection the back bone of a tench and also that of a roach exhibiting it. It is I suspect produced by the ungenial nature of the water produ-

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*Labrax Lupus*, Cuv. et Val. (Basse.) Common at Barmouth, North Wales, where it is caught in the mouth of the river by trailing a piece of herring or other fish fixed on a hook after a sailing boat in a brisk wind.

*Serranus Cabrilla*, Cuv. et Val. (The smooth Serranus.) I have seen several specimens of this fish taken by lines in a small rocky bay between Rhoscolyn and Holyhead; it is of a beautiful glossy colour when taken out of the water.

*Crenilabrus rupestris*, Selby. (Jago's Gold Sinny.) A single specimen of this rare British fish is in my possession, obtained on the coast of North Wales, near Aberystwith, two years ago, having been thrown upon the sand by a storm; it agrees precisely with Mr. Selby's description in the 'Magazine of Zoology and Botany,' vol. i.

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*Blennius Pholis*, Linn. (Shanny.) In recent specimens of this fish there is an appendage composed of a few branching hairs arising on each side at the upper extremity of the cavity anterior to the eyes: in dried specimens these appendages are not seen.

*Muraenoides guttata*, Lacep. (Spotted Gunnel.) Holyhead: not common.

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*Gobius bipunctatus*, Yarr. (Double-spotted Goby.) Obtained at Holyhead, but not commonly.

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*Leuciscus Cephalus*, Flem. (Chub.) Common in the rivers of Shropshire, but not that I am aware of ever found in North Wales.

*Leuciscus Erythrophthalmus*, Cuv. (Red-eye Chub.) Found, but not so commonly as the roach and dace, in Salop.

*Leuciscus Alburnus*, Cuv. (Bleak.) Not uncommon in the Severn near Shrewsbury. My specimens were obtained in the spring from small brooks running into that river, in company with minnows and small gudgeons.

*Leuciscus Phoxinus*, Cuv. (Minnow.) Common: I have a specimen from the North Forest wanting the nasal projection.

*Cobitis barbatula*, Linn. (Loach.) Common in Shropshire, but not observed in North Wales.

*Esox Lucius*, Linn. (Pike.) In Shropshire common, but not indigenous in North Wales.

*Salmo Salar*, Linn. (Salmon.) Ascends most of the rivers of North Wales and the Severn to spawn.

*Salmo Trutta*, Linn. (Salmon Trout and Sewen.) Found in the Islwyth and Conway.

*Salmo Salmulus*, Will. (Samlet.) Found in the Severn and in most of the rivers of North Wales.

*Salmo Fario*, Linn. (Common Trout.) Common: several varieties are found in the Welsh lakes, which at first sight might be taken for species; but upon a minute examination and dissection, I am convinced to the contrary; three different varieties are found in Dyner alone.

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*Salmo Lavaretus*, Penn. (Groyomad.) Found in abundance in Rala Pool.

*Scopelus Humboldti*, Cuv. (Argentine.) Pennant mentions a specimen taken near Downing.

*Clupea Harengus*, Linn. (Herring.) Taken in abundance on the Welsh coast.

*Clupea alba*, Yarrell. (White Bait.) The only locality I know of for this fish in the district, is in the Murdoch, a river running into the sea at Barmouth.

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*Leuciscus Erythrophthalmus*, Cuv. (Red-eye Chub.) Found, but not so commonly as the roach and dace, in Salop.

*Leuciscus Alburnus*, Cuv. (Bleak.) Not uncommon in the Severn near Shrewsbury. My specimens were obtained in the spring from small brooks running into that river, in company with minnows and small gudgeons.

*Leuciscus Phoxinus*, Cuv. (Minnow.) Common: I have a specimen from the North Forest wanting the nasal projection.

*Cobitis barbatula*, Linn. (Loach.) Common in Shropshire, but not observed in North Wales.

*Esox Lucius*, Linn. (Pike.) In Shropshire common, but not indigenous in North Wales.

*Salmo Salar*, Linn. (Salmon.) Ascends most of the rivers of North Wales and the Severn to spawn.

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*Morrhua vulgaris*, Linn. (Cod.) Caught on many parts of the coast of North Wales.

*Morrhua Æglefinus*, Cuv. (Haddock.) Caught occasionally on most parts of the coast.

*Merlangus Pollachius*, Cuv. (Pollach.) Common.

*Platessa vulgaris*, Flem. (Plaice.) Common.

*Platessa Flesus*, Cuv. (Flounder.) Common in the Severn.

*Platessa Limanda*, Cuv. (Dab.) Holyhead: common.

*Rhombus maximus*, Cuv. (Turbot.) Holyhead and on the Caernarvonshire coast.

*Rhombus vulgaris*. (Brill.) Common.

*Rhombus megastoma*, Cuv. (Whiff.) Once captured at Holyhead.

*Solea vulgaris*, Mer. (Sole.) Common.

*Cyclopterus lumpus*, Linn. (Lump-sucker.) Occasionally taken at Holyhead. I have specimens in my collection not more than three quarters of an inch long.

*Liparis vulgaris*, Cuv. (Unctuous Sucker.) Common.

*Liparis Montagu*, Cuv. (Montagu's Sucker.) Holyhead: not common.

*Anguilla acutirostris*, Yarr. (Sharp-nosed Eel.) Found in the Severn, and in pools near Eyton.

*Anguilla latirostris*, Yarr. (Broad-nosed Eel.) Frequents the muddy drains on the Weald Moors rather than running water, and grows to a much larger size than the preceding.

*Anguilla mediorostris*, Yarr. (Snig.) Also found occasionally in the neighbourhood of Eyton.

*Conger vulgaris*, Cuv. (Conger.) Common in the neighbourhood of Holyhead.

*Leptocephalus Morrisii*, Penn. (Anglesea Morris.) Three or four specimens have at different times been taken on the Welsh coast.

*Ammodytes Tobianus*, Cuv. (Sand Eel.) Common.

*Ammodytes Lancea*, Cuv. (Sand Launce.) Also found occasionally on the Welsh coast in company with the preceding, but not nearly so commonly.

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*Lamna Monensis*, Cuv. (Beaumaris Shark.) Has been twice taken in the Menai Straits.

*Selache maximus*, Cuv. (Basking Shark.) Occurs but rarely on the Welsh coast.

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V.—*Floræ Insularum Novæ Zelandiæ Precursor; or a Specimen of the Botany of the Islands of New Zealand.* By ALLAN CUNNINGHAM, Esq.

[Continued from vol. ii. p. 214.]

HALORAGEÆ, R. Br.

1. CERCODIA, Murray, Lamarck.

*Calycis tubus* ovario adnatus, limbus 4-partitus. *Petala* 4. *Stam.* 8.

*Stigmata* 4, sessilia. *Fructus* nucamentaceus, indehiscens, tetraqueter, 4-alatus, 4-ocularis, 4-spermus.

526. *C. erecta*, foliis (oppositis) petiolatis ovato-lanceolatis grosse dentatis, 2—3 uncialibus ; floribus in axillis superioribus sessilibus aggregato-verticillatis. *DC. Prodr.* iii. p. 67. *A. Rich. Fl. Nov. Zel.* p. 324.—*Haloragis alata.* *Jacq. Ic.* 1. t. 69.

*Ti* or *Toa-Toa*, incol. *D'Urville.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Open fern-grounds, Bay of Islands.—1826, *A. Cunningham.*

527. *C. alternifolia*, foliis alternis petiolatis ovato-lanceolatis acutis grosse serratis scabriusculis (uncialibus), floribus axillaribus pedicellatis solitariis vel in verticillis 2—3, versus extremitates ramulorum, ramulis angulatis asperis.

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